1737

## CORRECTED

## **ABSTRACT OF THE DISCLOSURE**

A method of producing a heating element made from molybdenum silicide and alloys thereof, and which includes aluminum oxide on its surface. A material is produced that contains substantially Mo(Si<sub>1-x</sub> Al<sub>x</sub>)<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> by mixing a mixture of a silicon and molybdenum compound with man aluminum compound. Either of the silicon and molybdenum compounds include Mo(Si<sub>1-y</sub> Al<sub>y</sub>)<sub>2</sub> and are mixed with one or both of an aluminum compound in the form of Al<sub>2</sub>O<sub>3</sub> or Al(OH)<sub>3</sub> and optionally the compounds SiO<sub>2</sub>, Si, and MoO<sub>3</sub>, or by virtue of the mixture of the silicon and molybdenum compound containing MoO<sub>3</sub> and Al and Si and/or SiO<sub>2</sub>. The input components together have a degree of purity corresponding to at least 98%. The mixture reacts exothermically and/or by being sintered, so that exchange reactions take place to form the compounds Mo(Si<sub>1-x</sub> Al<sub>x</sub>)<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub>, where x lies in the range of 0.4 - 0.6.